## Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims**:

1. (Original) A method of providing software for use by a control unit of a vehicle, said method comprising:

before its use by the control unit, signing the software against falsification, using a secret or private key of a software signature site, according to a public-key method; and

checking the signed software for integrity, using a public key complementary to the secret key of the software signature site.

- 2. (Currently Amended) The method according to Claim 1, further comprising generating a software signature certificate, using the public key of the software signature site and a secret key of a control entity [[,]] of a trust center, according to a public-key method.
- 3. (Original) The method according to Claim 1, wherein one of a control entity certificate and a trust center certificate is generated according to a public-key method by using the secret key of the control entity.

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4. (Original) The method according to Claim 1, wherein clearing code

data are signed using a secret key of a clearing code site according to a public key

method.

5. (Original) The method according to Claim 2, wherein a clearing code

site signature certificate is generated using the secret key of the control entity of

the trust center according to a public-key method.

6. (Original) The method according to Claim 3, wherein the trust

center certificate is protected against falsification and exchange, in a protected

memory area in the control unit.

7. (Currently Amended) The method according to Claim 1 A

method of providing software for use by a control unit of a vehicle, said method

comprising:

before its use by the control unit, signing the software against

falsification, using a secret or private key of a software signature site, according

to a public-key method; and

checking the signed software for integrity, using a public key

complementary to the secret key of the software signature site, wherein the a

clearing code site signature certificate, the a software signature certificate, the

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clearing code data and their signature as well as the software and its signature

are stored in the control unit.

8. (Original) The method according to Claim 2, wherein the software

signature certificate includes at least one validity restriction.

9. (Original) The method according to Claim 5, wherein the clearing

code site signature certificate includes at least one validity restriction, a

restriction to a particular control unit which is designated by means of an

identification number stored in the control unit in an invariable manner, and a

restriction to a vehicle identification number of a particular vehicle.

10. (Original) The method according to Claim 2, wherein the software

signature certificate is checked for integrity according to a public-key method,

using a public key of the trust center.

11. (Original) The method according to Claim 2, wherein the signed

software is checked for integrity according to a public key method, using the

public key of the software signature site contained in the software signature

certificate.

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12. (Original) The method according to Claim 5, wherein the clearing

code site signature certificate is checked for integrity according to a public key

method, using a public key of the trust center.

13. (Original) The method according to Claim 4, wherein the signed

clearing code data are checked for integrity according to a public key method,

using a public key of the clearing code site contained in the clearing code site

signature certificate.

14. (Original) The method according to Claim 1, wherein the control

unit is equipped with a sequence-controlled microprocessor that implements one

of the above-described methods.

15. (Original) A control unit for a motor vehicle, which implements a

method according to Claim 1.

16. (Original) A data processing system for a motor vehicle, which

implements a method according to Claim 1.

17. (Original) A computer program product sequence control of a data

processing system of a motor vehicle or motorcycle, which implements the

method according to Claim 1.

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- 18. (Original) A data carrier, comprising a computer program product according to Claim 17.
- 19. (New) A method of providing software for use by a control unit of a vehicle, said method comprising:

storing, by the control unit, a software signature certificate;

receiving, by the control unit, signed software;

checking, by the control unit, whether the software signature certificate has been changed or manipulated; and

checking, by the control unit, whether the signed software has been changed or manipulated.

20. (New) The method of claim 19, further comprising:

storing, by the control unit, a trust center certificate that includes a public key and a signature generated using a secret key of a trust center; and

storing, by the control unit, a clearing code site signature certificate that includes a second public key and a second signature,

wherein the software signature certificate includes a third public key and a third signature.